

In the claims:

1 - 15. (Cancelled)

16. (Original) The multiple subscriber carrier system supporting v.90 standard data transmission, comprising:

a variable gain control unit coupled to a central office switch for receiving a converted analog signal converted from a digital signal and gain controlling the converted analog signal;

a low pass filter coupled to the gain control unit for filtering the gain controlled analog signal; and

a μ -law analog to digital converter coupled to the filter for converting the filtered, gain controlled analog signal to a corresponding digital signal;

wherein said low pass filter is configured to increase the band edge gain of said gain controlled analog signal at a frequency of approximately 4 KHz by approximately 6 dB.

17. (Original) The system of claim 16 wherein said digital signal and said corresponding digital signal output from said μ -law analog to digital converter are substantially the same.

18. (Original) The system of claim 16 wherein said low pass filter includes a second order low pass notch filter.

19. (Original) The system of claim 16 wherein said low pass filter includes a pole at approximately 4,065 Hz and a zero at approximately 4,216 Hz, and a quality factor of 40.9.

20 - 27. (Cancel)

28. (Original) A method of providing a multiple subscriber carrier system supporting v.90 standard data transmission, comprising the steps of:

receiving an analog signal converted from a 64 Kbps pulse code modulated (PCM) signal;

gain controlling the analog signal;

filtering the gain controlled analog signal; and

converting the filtered, gain controlled analog signal to a corresponding digital signal;

wherein said filtering step includes the step of increasing the band edge gain of said gain controlled analog signal at a frequency of approximately 4 KHz by approximately 6dB.

29. (Original) The method of claim 28 wherein said step of filtering includes the step of providing a low pass filter having a pole at approximately 4,065 Hz and a zero at approximately 4,216 Hz, and a quality factor of 40.9.